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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/735,606	12/14/2000	Gerard Hartnett	P66021US0	5782

7590   06/01/2005

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EXAMINER
NGUYEN, VAN H

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/735,606	HARTNETT, GERARD
	Examiner	Art Unit	
	VAN H. NGUYEN	2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>01 November 2004</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>2-13</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>2-13</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1.   Claims 2-13 remain in this application.

Claim Rejections - 35 USC § 103

2.   The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3.   Claims 3-10, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Edmond et al.** "*R-OK: A Reflective Model for Distributed Object Management*" 1995 IEEE, (pp.1-8) in view of **Bunch et al.** (U.S. 5,940,487).

4.   As to claim 13, Edmond teaches the invention substantially as claimed including a control framework (*the R-OK model*; abstract/ *a flexible framework*; page.7, right column, fourth paragraph) for control of services (*for providing structured descriptions and coordinated execution of several reflective distributed computing tasks;* page 7, right column, fourth paragraph), the control framework comprising an application domain level (*domain knowledge...problem domain*; page 1, left column/*domain level*; page 5, right column, last paragraph) comprising control logic domain objects (*domain objects*; abstract and page.7, right column, third paragraph) having object classes (*classes and objects;* page.7, right column, third paragraph), and a meta level (*the metalevel*; abstract) comprising meta objects (*Metaobjects;* abstract/*meta-objects*; page.7, right column, third

paragraph) which represent the domain object classes (*used to describe and monitor*

every domain object in the system; abstract/*meta-objects which convey information about*

or control the implementation and interpretation of their respective domain objects; page

7, right column, third paragraph).

Edmond does not explicitly use the terms "a telecommunication controller and

telecommunication services" and "isolate the domain objects from the services."

Bunch teaches a telecommunication controller and telecommunication services

(abstract) and isolate the domain objects from the services (col.5, lines 10-22).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine the teachings of Bunch with Edmond because Bunch's

teachings would have provided the capability for managing domain objects and meta

objects and generating high performance controller for a wide variety of applications.

5.   As to claim 3, Edmond teaches the meta objects are structured in a hierarchy of

abstract classes for declaring actions and attributes (page 6, right column).

6.   As to claim 4, Edmond teaches wherein the meta objects invoke actions on

domain objects and changes to attributes of domain objects (page 6, right column).

7.   As to claim 5, Edmond teaches the controller comprises a key class naming

objects in the domain level (page 5, left column).

8.   As to claim 6, Edmond teaches the meta level defines containment of domain

level objects and the domain level automatically notifying the meta level of containment

modification (page 7, left column).

9.   As to claim 7, Edmond teaches interrogate a base object containment hierarchy to locate a required object in response to a request from a requesting object (page 5, right column).

10.   As to claim 8, Edmond teaches the meta objects perform persistence data operations transparently to the domain objects (page 6, right column).

11.   As to claim 9, Edmond teaches the meta objects update a data backup controller for fault tolerance transparently to the domain objects (page 3, right column).

12.   As to claim 10, Edmond teaches verify base object proposals to update real resource attributes (page 7, left column).

13.   As to claim 12, Edmond teaches the adapter objects are contained in a services level in the controller (page 1, right column and page 7, right column).

14.   Claims 2 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Edmond et al.** in view of Bunch et al. as applied to claims 1 and 8 above and further in view of **Rubin.**

15.   As to claim 2, the combination of Edmond and Bunch does not explicitly teach "event channels for automatic notification to subscribers. "

        Rubin teaches event channels for automatic notification to subscribers (*notifying programs that a logical event has occurred on a network*; abstract).

        It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Rubin's teachings in the system of Edmond as modified by Bunch because Rubin's teachings would have provided the capability for monitoring

logical events on a network and performing a function call to alert all users of the

occurrence of the event.

16. As to claim 11, the combination of Edmond and Bunch does not explicitly teach

"publish events on channels to notify adapter objects. "

Rubin teaches means for publishing events on channels to notify adapter objects

(abstract).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine Rubin's teachings in the system of Edmond as modified

by Bunch because Rubin's teachings would have provided the capability for monitoring

logical events on a network and performing a function call to alert all users of the

occurrence of the event.

Response to Arguments

17. Applicant's arguments filed November 01, 2004 have been fully considered but

they are not persuasive.

18. In the remarks, Applicant argued in substance that Bunch does not teach or

suggest a telecommunication controller, a control framework for control of

telecommunication services, or an application domain level comprising control logic

domain objects.

19. Examiner respectfully traverses Applicant's remarks.

As detailed in the rejection above, Edmond teaches a control framework for control of services (*a flexible framework for providing structured descriptions and coordinated execution of several reflective distributed computing tasks such as object communication and method dispatching to remote objects*; p. 7, right col.). Also, Edmond's teaching "*an object may be causally connected with meta-objects which convey information about or control the implementation and interpretation of their respective domain objects*" (p. 7, right col.) meets "an application domain level comprising control logic domain objects" as claimed by Applicant. The communication in Edmond may be a telecommunication (object *communication* and method dispatching to *remote* objects; Edmond, p.7, right col.). However, as stated in the rejection above, Edmond does not explicitly use the term "telecommunication". Bunch is combined with Edmond for telecommunication (*a telecom platform application program interface (API) 62 provides an interface for these services 60...provides an easy to use programming interface for call logic programs 54...isolate it from the implementation of the telecom platform functionality*; Bunch, col.5, lines 10-22).

Applicant has had opportunities to amend the claimed subject matter, and has failed to modify the claim language to distinguish over the prior art of record by clarifying or substantially narrowing the claim language. Thus, Applicant apparently intends that a broad interpretation be given to the claims and the Examiner has adopted such in the present and previous Office action rejections. See *In re Prater and Wei*, 162 USPQ 541 (CCPA 1969), and MPEP § 2111.

Conclusion

20.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of
time

policy as set forth in 37 CFR 1.136(a).

21.   A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the mailing date of this final action.

22.   Any inquiry or a general nature or relating to the status of this application should

be directed to the TC 2100 Group receptionist: (571) 272-2100.

23.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-

3765. The examiner can normally be reached on Monday-Thursday from 8:30AM -

6:00PM. The examiner can also be reached on alternative Friday.

24.   If attempts to reach the examiner by telephone are unsuccessful, the examiner's

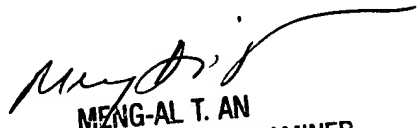supervisor Meng-Ai An can be reached on (571) 272-3756.

25.	The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

26.	Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:
Commissioner for patents
P O Box 1450
Alexandria, VA 22313-1450

MENG-AI T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

vhn